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Optos optomap Integration User Guide

Updated: 10 Dec 2015

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IMPORTANT NOTE: This User Manual is designed to provide practices all fundamental information required to perform the setup without assistance. However, if assistance is needed, we request that a call be scheduled with Customer Support. Due to the technical component and time required when assisting practices with device integration, a scheduled call will ensure that the appropriate Subject Matter Expert is available and has sufficient time to provide the help needed. To request a call with a Subject Matter Expert, please email customersupport@revolutionehr.com.

In addition, if you have a device rep coming onsite to help set up any new or existing equipment that will integrate with RevolutionEHR, be sure to email ahead if you believe you will need assistance from RevolutionEHR.

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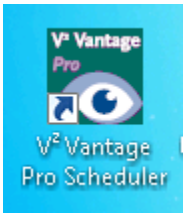
Introduction

The **RevIntegrator for Imaging** is a software application that installs and runs on PCs to integrate RevolutionEHR to Optos optomap®. This software is designed to work behind-the-scenes to retrieve data from RevolutionEHR and send it to optomap. Once this software is configured you generally won't have to interact with it. The software should be installed and configured on every PC in the practice.

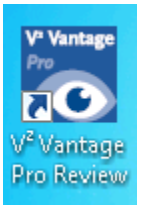
Three quick steps to get it working:

1) Install
2) Configure
3) Run

Appendix D: Software installation overview is a graphical representation of the information below. To utilize the export of patient demographics from RevolutionEHR into Optos optomap or the V² Vantage Pro system, the Scheduler or Capture software must be installed along with the RevIntegrator for Imaging.



To utilize the review of a particular patient record from inside RevolutionEHR, the patient id in Optos optomap or the V² Vantage Pro system must match the patient id in RevolutionEHR. Additionally the PC must run the V² Vantage Pro Review software along with the RevIntegrator for Imaging.



Contact Information

For help with installation and configuration of this software contact:

Customer Support at 1-877-738-3471 extension 2

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Step 1: Installing the Software

The **RevIntegrator for Imaging** is free software that can be downloaded and used by any RevolutionEHR customer. There is no special licensing or fees required to use it. The RevIntegrator for Imaging should be installed on any PCs that are currently running Capture or Scheduler for exporting patient demographics. It can also be installed on exam room PCs that are currently running Review.

It requires the following prerequisites to run on a PC:

> *A Supported Operating System: Windows 7 or above, Windows 7 Service Pack 1 or above, Windows Server 2003 Service Pack 2, Windows Server 2008, Windows Server 2008 R2, Windows Server 2008 R2 SP1, Windows Vista Service Pack 1, Windows XP Service Pack 3*
>
> *A Supported PC: with an Intel-compatible x86 or x64 processor, **r**ecommended minimum of Pentium 1 GHz or higher with 512 MB RAM or more, minimum disk space of 600 MB for x86 processors or 1.5 GB for x64 processors.*
>
> *Software installed: Microsoft .NET Framework 4 Client Profile or above, which requires Windows Installer 3.1 or later, and Internet Explorer 9 or later*
>
> *Microsoft Windows Installer 4.5 or above, which can be downloaded from Microsoft's Web site.*

The latest version of the RevIntegrator for Imaging software can be downloaded from:
http://insight.revolutionehr.com/wp-content/uploads/RevIntegratorforImaging.msi

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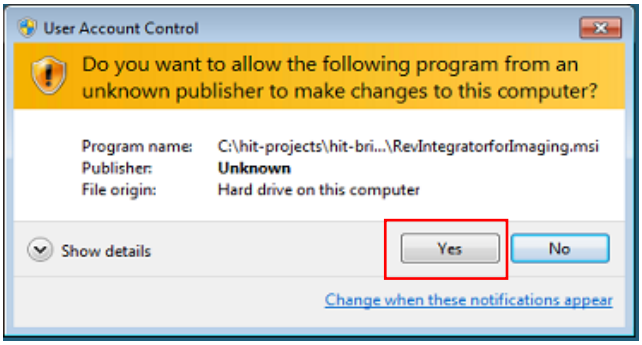
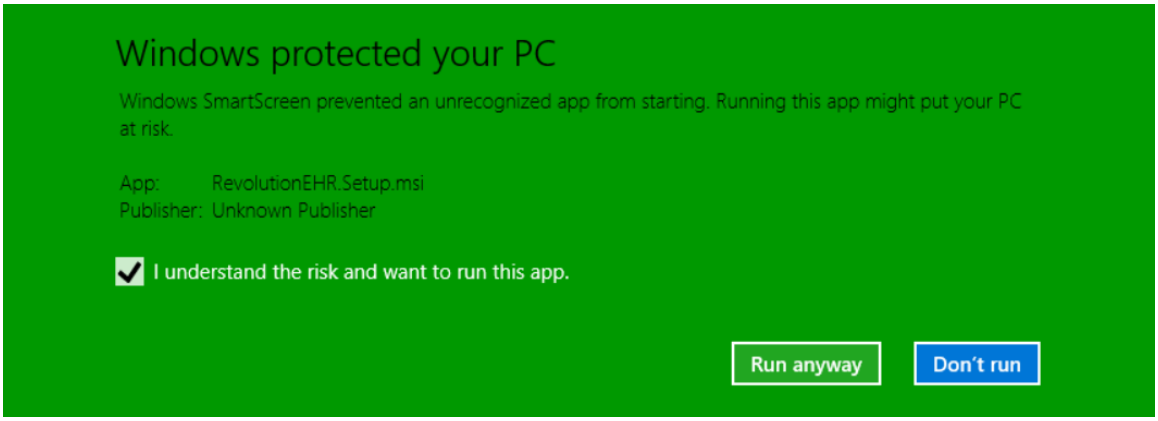
To install the software double-click the RevIntegratorforImaging.msi and the process will begin. If a User Account Control dialog box appears click Yes to allow it to make changes to this computer.


User Account Control
Do you want to allow the following program from an unknown publisher to make changes to this computer?
Program name: C:\hit-projects\hit-bri...\RevIntegratorforImaging.msi
Publisher: Unknown
File origin: Hard drive on this computer
Show details
Yes
No
Change when these notifications appear

Windows 10 Note: When attempting to install this software on Windows 10, Windows SmartScreen might display the warning shown below:


Windows protected your PC
Windows SmartScreen prevented an unrecognized app from starting. Running this app might put your PC at risk.
App: RevolutionEHR.Setup.msi
Publisher: Unknown Publisher
I understand the risk and want to run this app.
Run anyway
Don't run

This is due to fact that RevolutionEHR does not digitally sign its installations. Click the checkbox "I understand the risk and want to run this app". Then click the Run anyway button to start the installation process.

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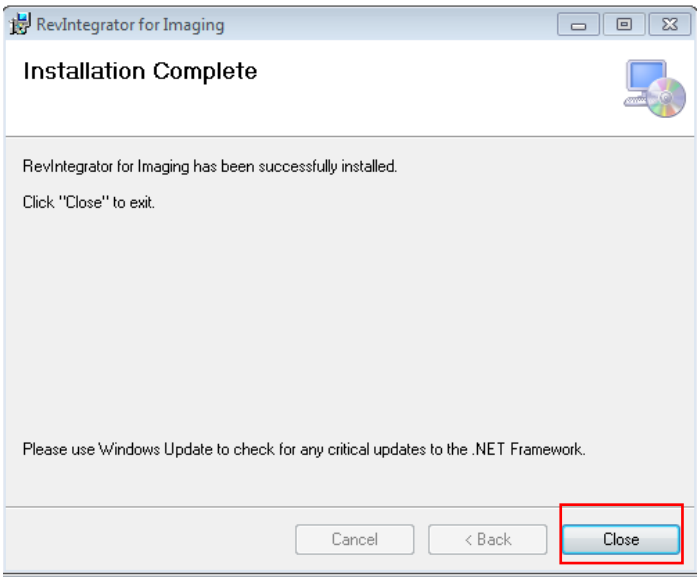
When complete the final installation screen will say “Installation Complete” and click the close button to exit this process.


RevIntegrator for Imaging
Installation Complete
RevIntegrator for Imaging has been successfully installed.
Click "Close" to exit.
Please use Windows Update to check for any critical updates to the .NET Framework.
Cancel
< Back
Close

The RevIntegrator for Imaging is now installed and it can be launched from either of the places shown below.

The icon will appear on the Windows Desktop:

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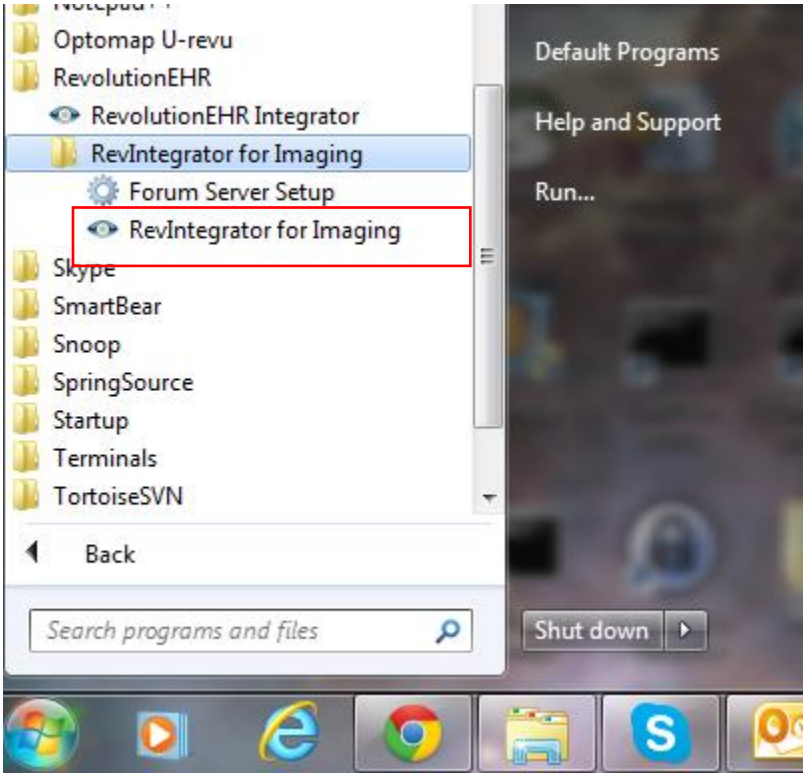
From the Start Menu, under RevolutionEHR, select RevIntegrator for Imaging:



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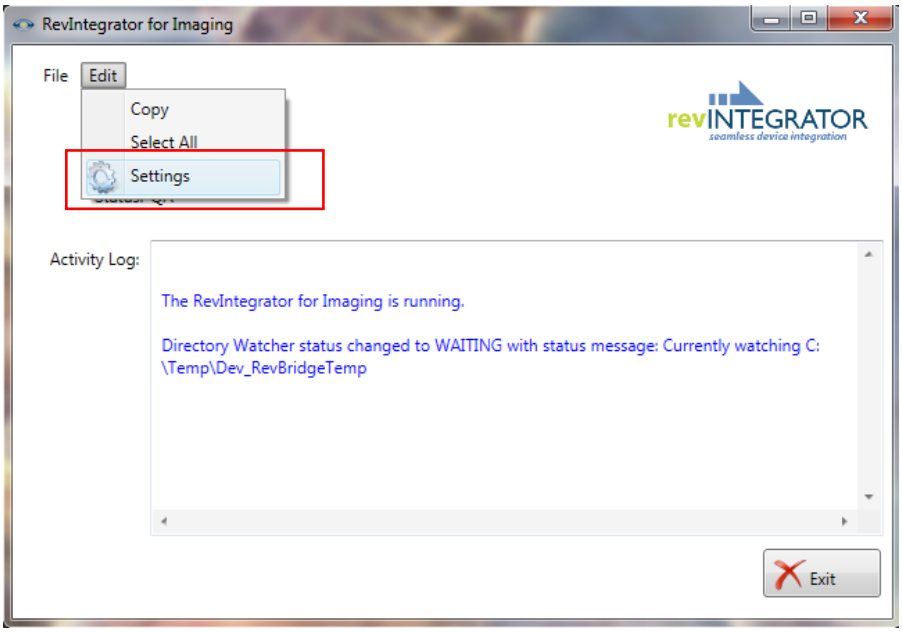
Step 2: Configuration

The first time the RevIntegrator for Imaging is run, it will need to be configured. From the Edit menu click the Settings menu option.



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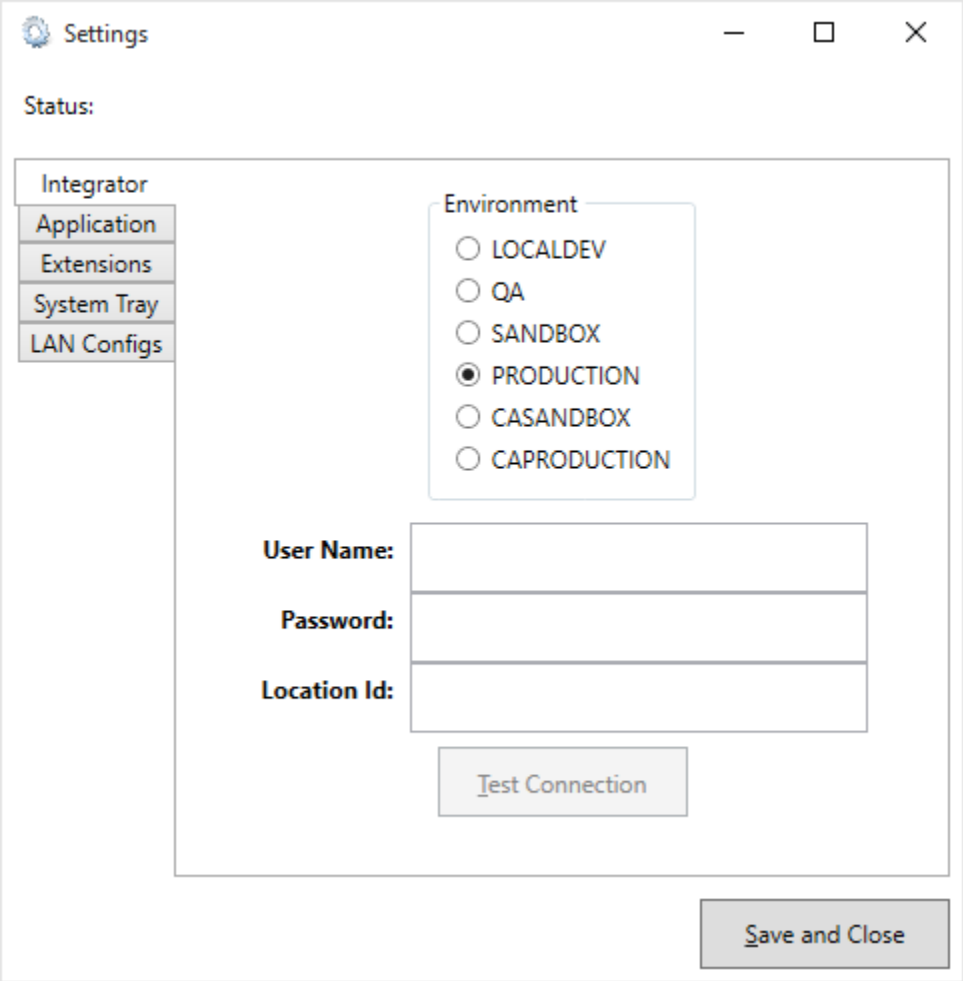
The Settings dialog box will appear. The items on the Integrator tab are required.



Enter values for the User Name, Password, and Location Id fields above. To obtain these values, log into RevolutionEHR, go into Administration, then to General > Practice Preferences. On the Partner Integrations tab, there's a "Device Interfaces" section that will list the various device interfaces.

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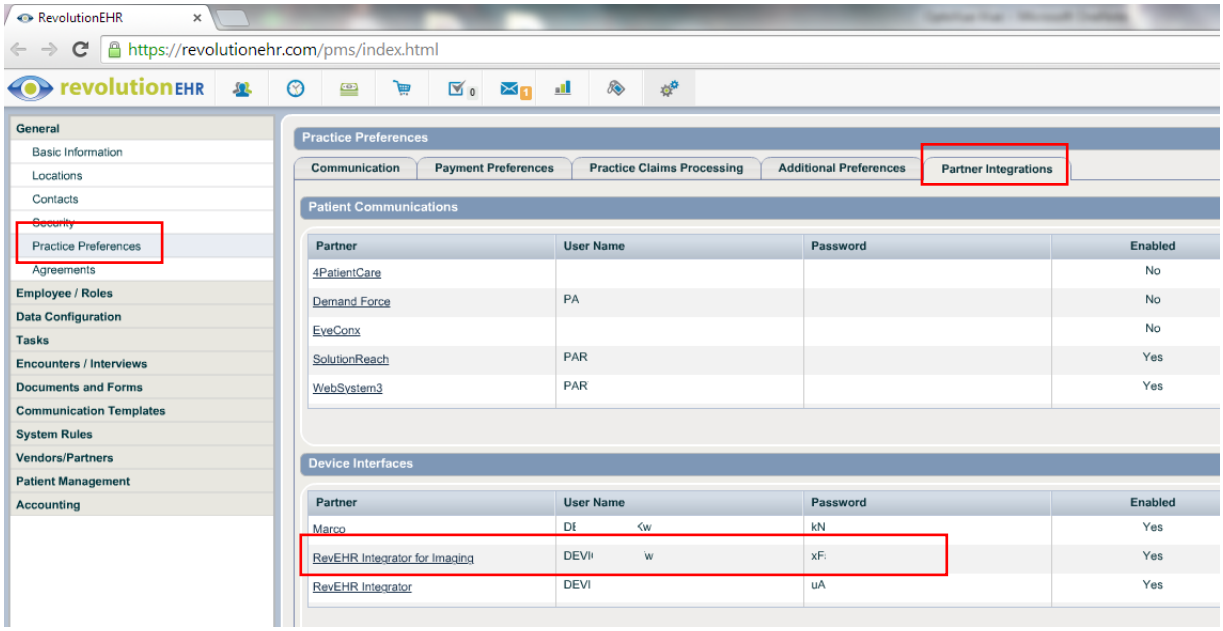
Credentials for the **RevEHR Integrator for Imaging** are used for this software:

Administration > General > Practice Preferences > Device Interfaces



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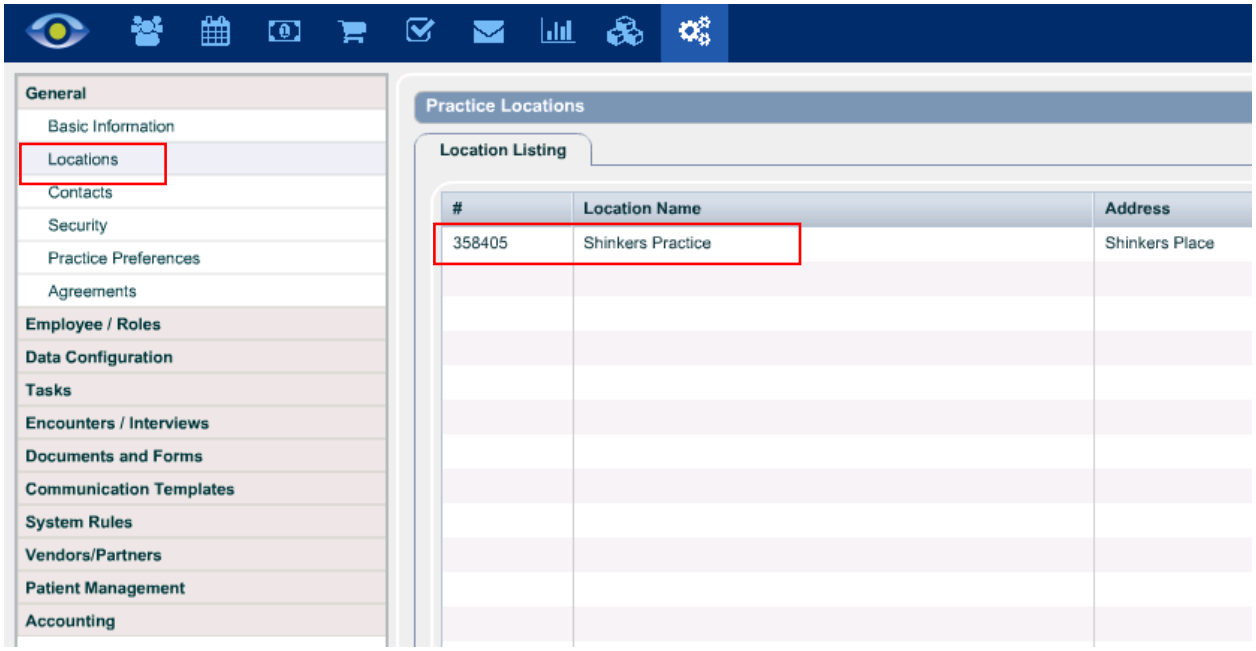
The Location Id is also in the Administration area. Under General click the Locations menu option. From the Location Listing enter the # (Location Id is 377 in the diagram below) for the current practice location.

Administration > General > Locations > Location Listing



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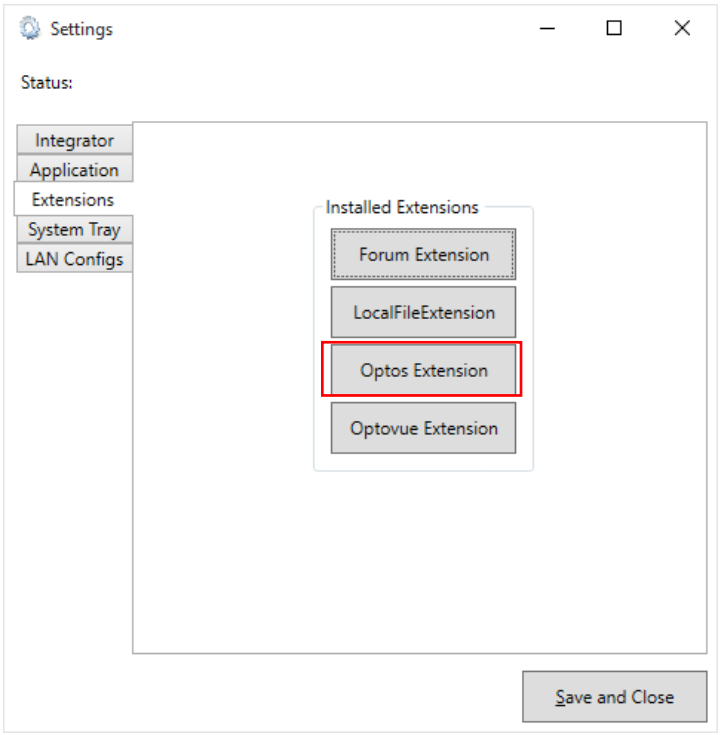
On the Extensions tab of the Settings dialog box, update the configuration settings by clicking Optos Extension:



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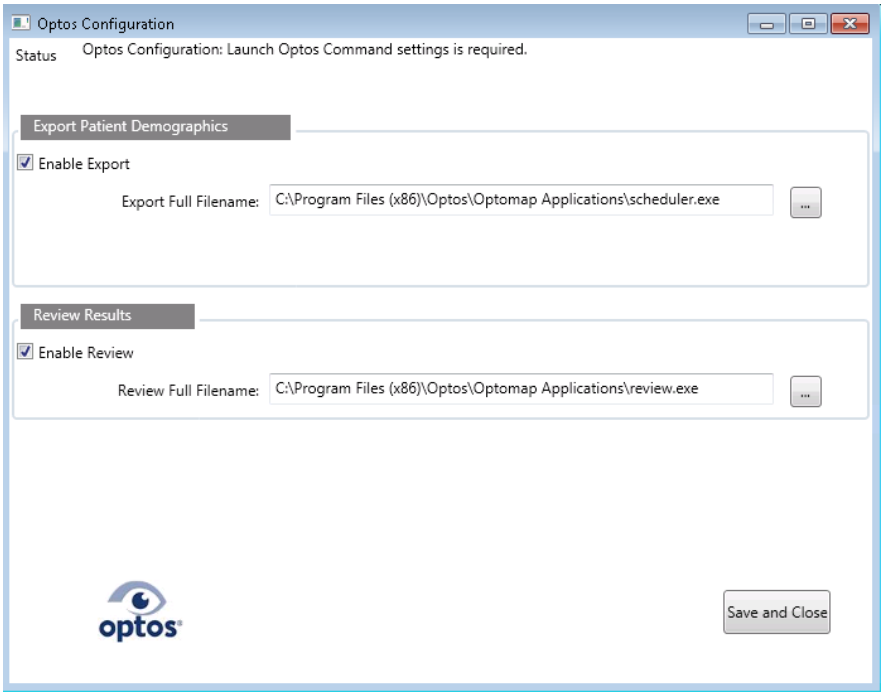
Below is a screenshot of the Optos Configuration dialog box.



When exporting patient demographics there is an option to use either Capture or Schedule. Select whichever option is appropriate for the device that's running in your practice. Once "Enable Export" is clicked then the entire filename statement to the executable (Capture.exe or Scheduler.exe) must contain a valid path. **Appendix D: Software installation overview** contains more information the software installation. Here are examples:

C:\Program Files\Optos\Optomap Application\Capture.exe
C:\Program Files (x86)\Optos\Optomap Application\Capture.exe

C:\Program Files\Optos\Optomap Application\Scheduler.exe
C:\Program Files (x86)\Optos\Optomap Application\Scheduler.exe

To view patient records in the Optos Review software, click Enable Review and then configure the complete filename to the Review.exe software.

After entering this information, while in the Settings dialog box, click Save and Close.

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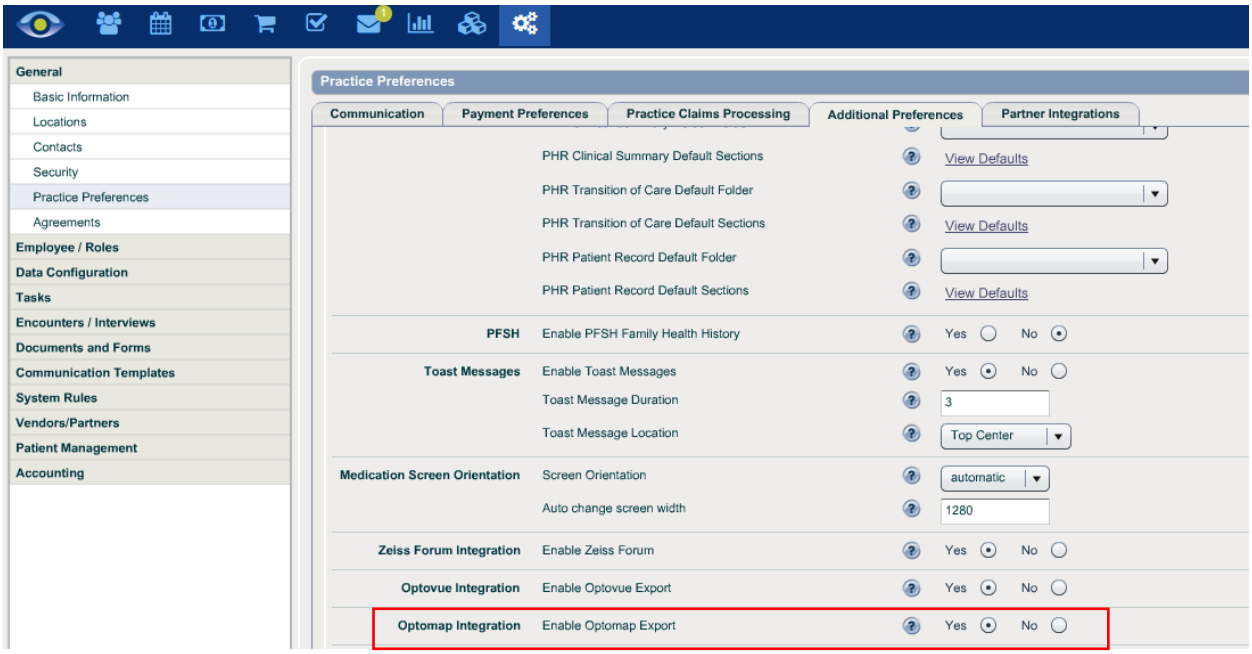
Step 3: Run Optos optomap

Important Note: For practices that have historic patient records in Optos, follow Appendix C: Updating existing patient records.

Enable the Optos optomap Integration

From the Additional Preferences tab, enable the optomap Integration,

Administration > General > Practice Preferences > Additional Preferences



Important Note: *After enabling the Optos Integration log out of the RevolutionEHR web application, then log back in to see the newly enabled buttons.*

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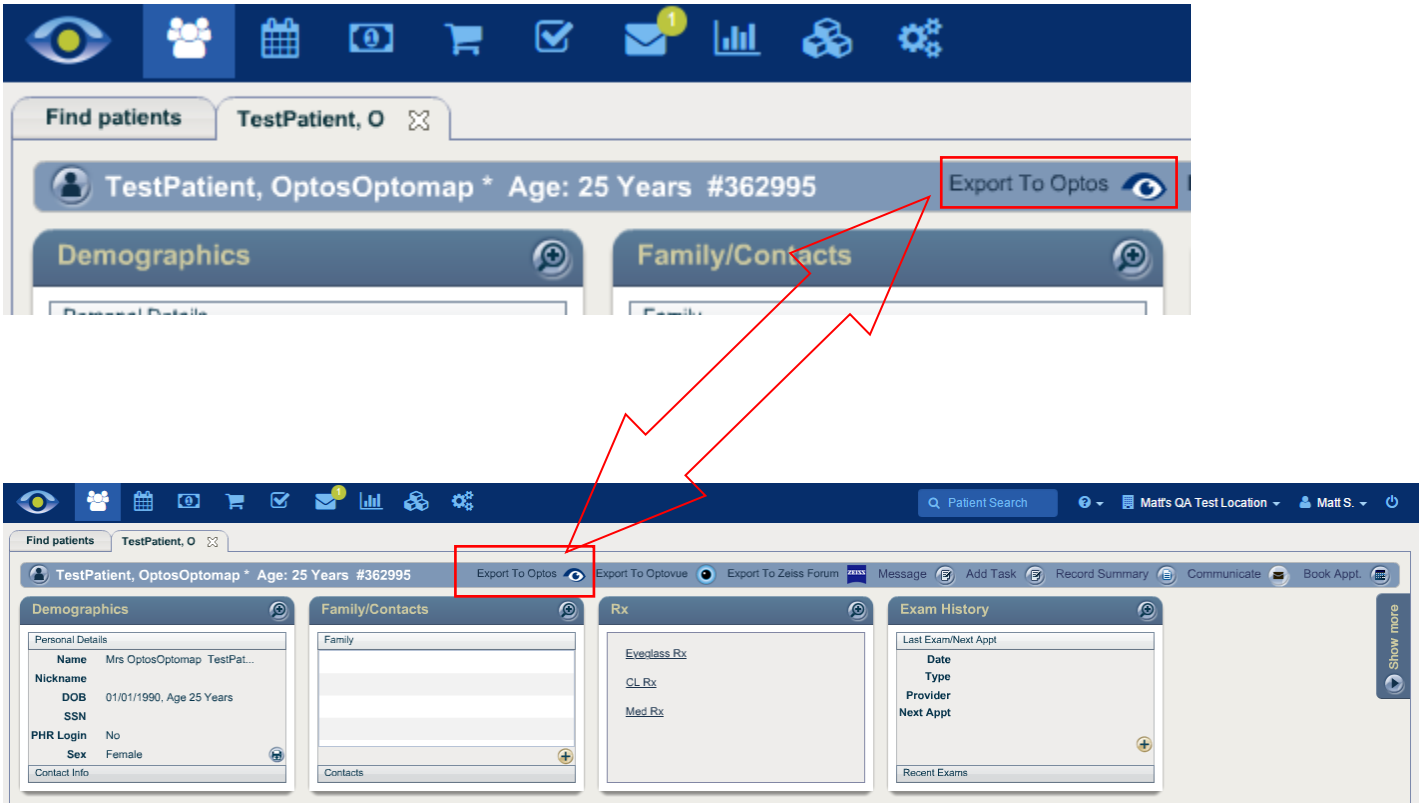
The RevIntegrator for Imaging is meant to work behind-the-scenes to integrate with other software applications like optomap. The application will run in the background when actions are taken in RevolutionEHR.

The screenshots show that you can export a Patient's demographics to Capture or Schedule by clicking the **Export to Optos** link and button.

NOTE: Appendix A of this document contains important configurations based on the web browser.



The RevIntegrator for Imaging goes to work querying the latest patient demographics from RevolutionEHR and then exporting them to Optos' Capture or V^2 Vantage Pro Scheduler software. In the export data the **Patient Id** from RevolutionEHR is populated along with **Issuer of Patient Id** equal to "*RevolutionEHR*". These details establish RevolutionEHR as the golden record* for patient information. In other words use RevolutionEHR to enter and maintain your patient records and then export that data to other systems.

*Golden record is an Information Systems concept for Single Source of Truth (SSOT). Click for more details

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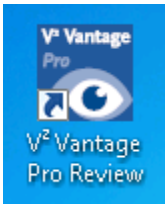
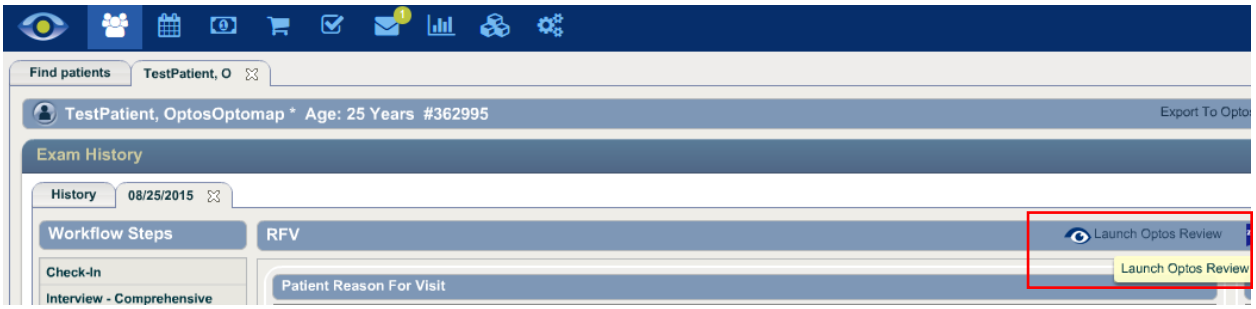
Additionally, Optos' V^2 Vantage Pro Review can be launched within a patient encounter. This process opens Review to the patient.

Below is the icon for the Optos V^2 Vantage Pro Review software:





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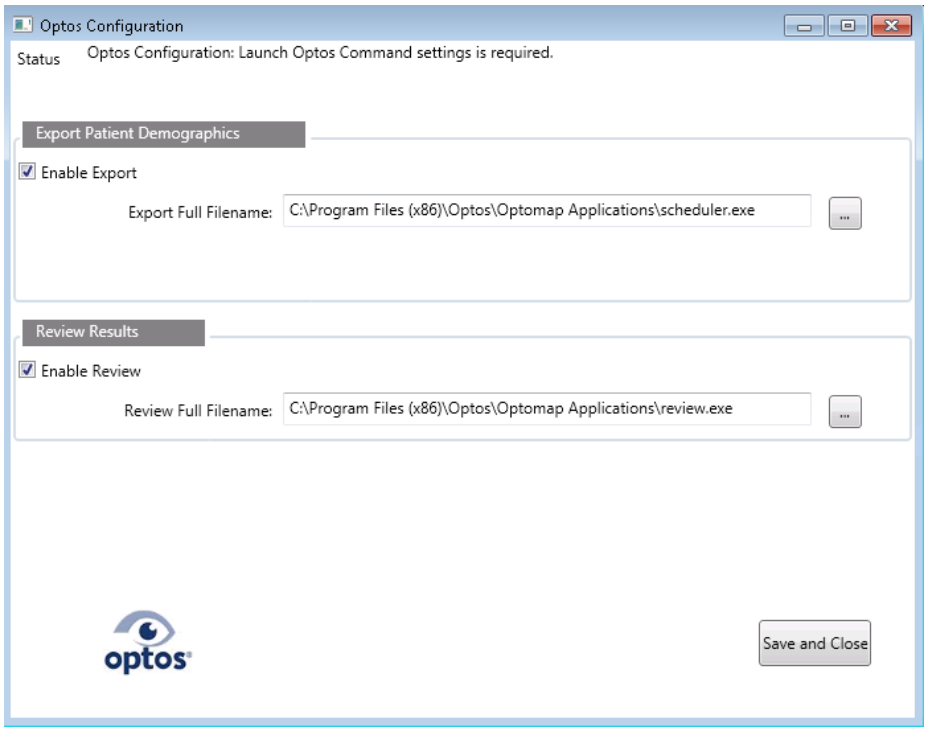
If this wasn't already configured, the first time the integration is run, the Optos Configuration dialog box below will be displayed. Page 11 of this User Guide contains more information about configuring this integration.



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The following fields of information are exported from RevolutionEHR into Optos.

RevolutionEHR Field	Optos Field
Patient's last name	Family name
Patient's first name	Given name
Patient's middle name	Middle name
Patient Id	Patient id
Patient's Date of Birth	Patients birth date
Patient's sex	Gender

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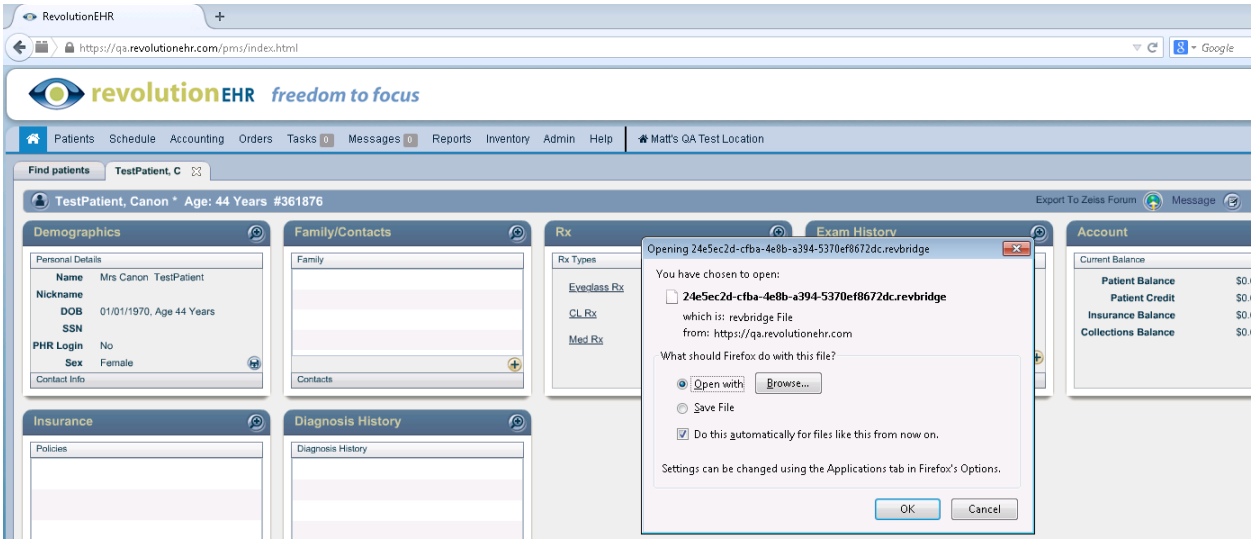
Appendix A: Browser settings for RevIntegrator for Imaging

The RevIntegrator for Imaging uses a custom MIME type in the web browser to launch actions on local PCs. This means that each web browser must have configuration settings. For each of the supported browsers there are configuration instructions below. This configuration should only need to be done once on the PC.

Firefox – clicking on the Export to Optos displays a popup window, click OK and the RevIntegrator for Imaging application will start.



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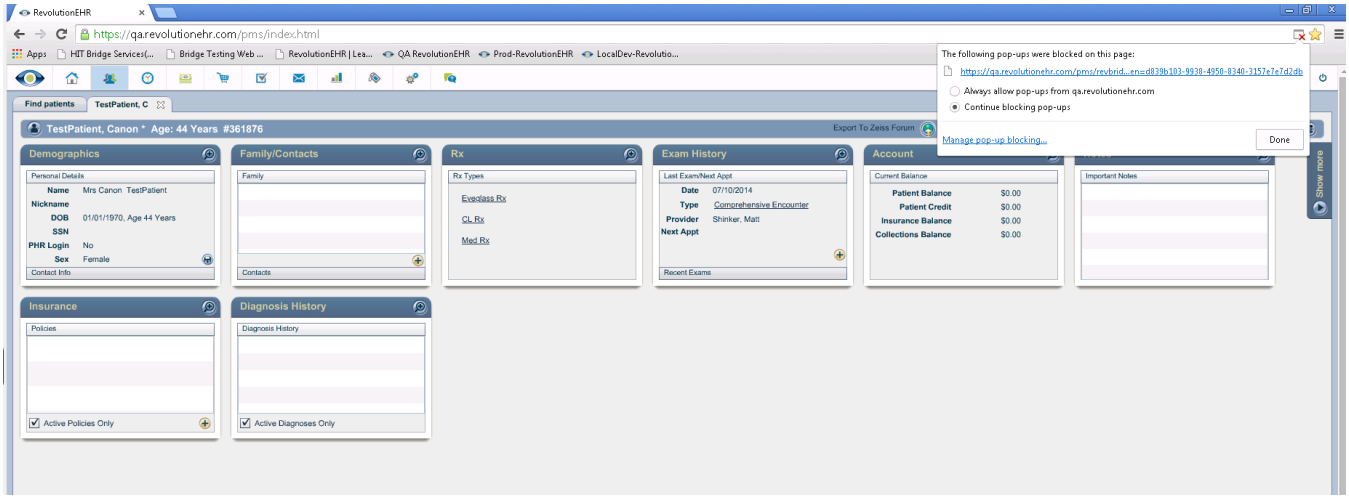
Google Chrome

When first clicking the “Export to Optos” button in Google Chrome shows that a popup was blocked. Click the option for “Always allow pop-ups from …” and then click Done.



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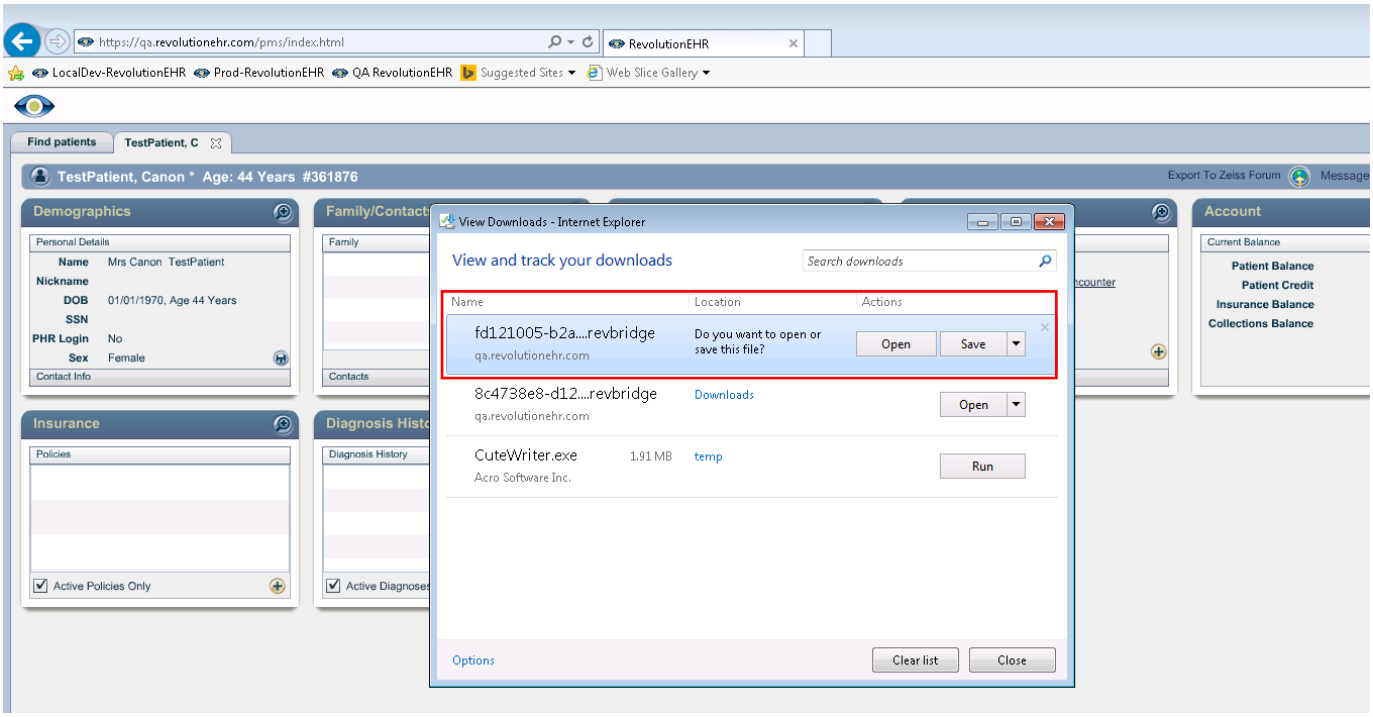
Internet Explorer

When first clicking the “Export to Optos” button in Microsoft’s Internet Explorer, the View Downloads dialog box appears. Click the Open button, on the highlighted file, to export the Patient’s demographic data and launch Capture or Scheduler.



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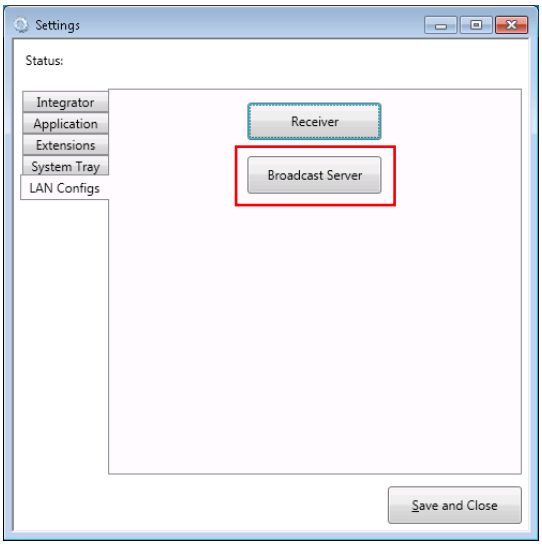
Appendix B: Broadcasting configurations

The **RevIntegrator for Imaging** should be installed and configured on every Optos PC in your practice. The latest version of the RevIntegrator for Imaging software can be downloaded from:

http://insight.revolutionehr.com/wp-content/uploads/RevIntegratorforImaging.msi

Once you have a single PC configured and integrated properly you can use that PC to broadcast out its configurations to all other PCs. While logged into the first configured and running PC, click Settings and from the LAN Configs tab click the Broadcast Server button. This action begins broadcasting updates to all "Receiver" PCs in your practice.



The LAN Configurations application will launch in "Broadcast Server" mode. That means this PC will broadcast its settings to any PC, that's connected to the same network, that's running as a Receiver.

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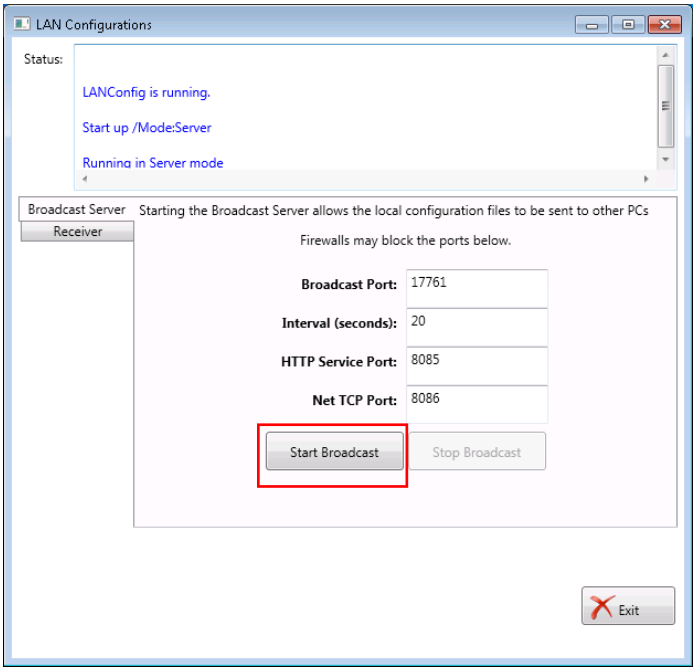

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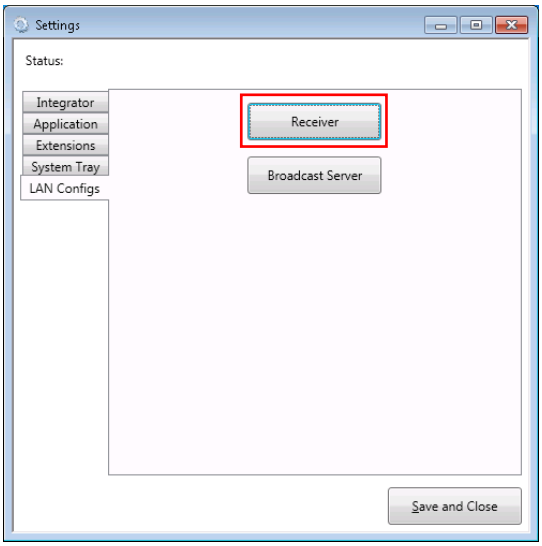
Move to each of the other PCs in your practice, start the **RevIntegrator for Imaging** software. Inside the Settings dialog box, click LAN Configs, click the Receiver button. The RevIntegrator for Imaging will close down while it locates the originally configured PC and copies those configuration settings.



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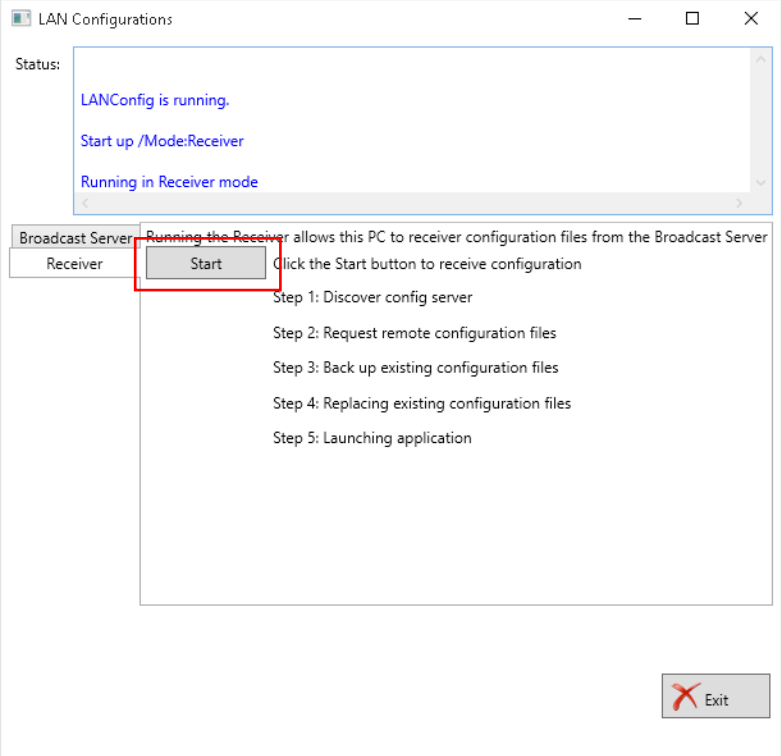
The LAN Configurations screen will now appear in “Receiver Mode”. Click the Start button and this PC will receive any configurations settings broadcasted by the original PC (in Broadcast Server mode).


LAN Configurations
Status:
LANConfig is running.
Start up /Mode:Receiver
Running in Receiver mode
Broadcast Server
Receiver
Start
Running the Receiver allows this PC to receiver configuration files from the Broadcast Server
Click the Start button to receive configuration
Step 1: Discover config server
Step 2: Request remote configuration files
Step 3: Back up existing configuration files
Step 4: Replacing existing configuration files
Step 5: Launching application
Exit

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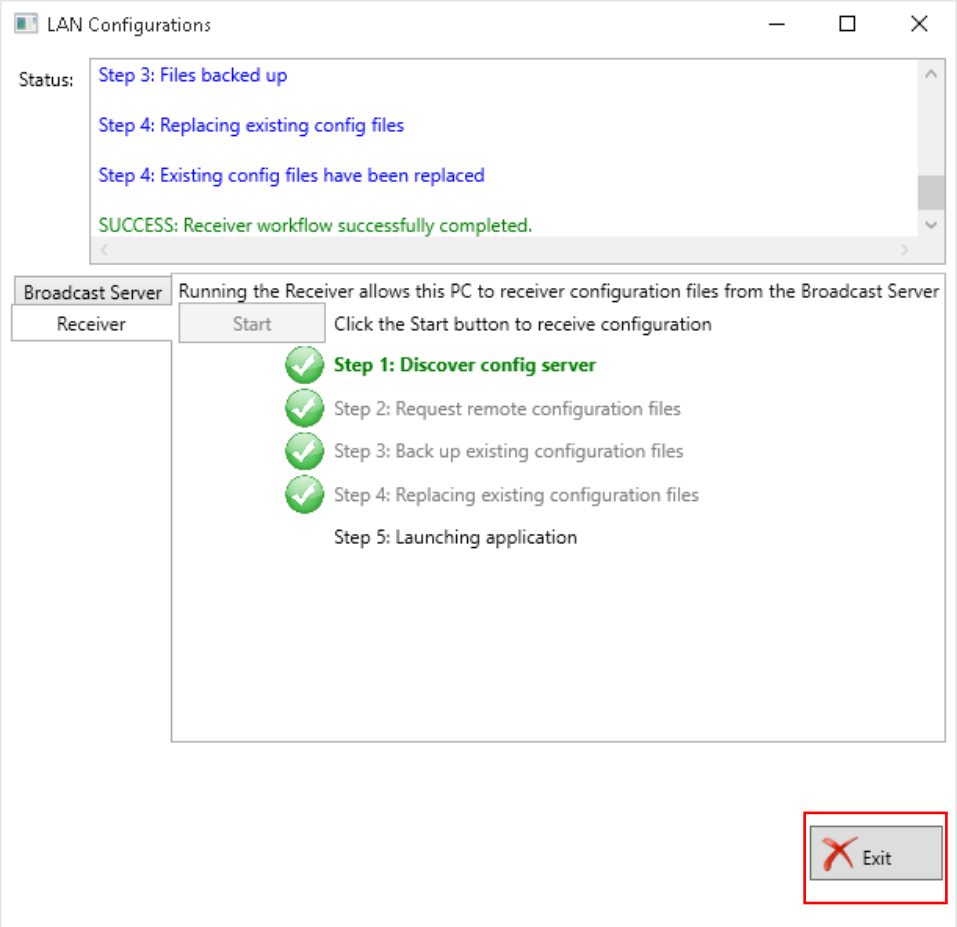
The Receiver will quickly step through a process of backing up the existing configurations and then saving the broadcasted files. After clicking the Exit button this process is complete and when RevIntegrator for Imaging is re-run on this PC it will use the updated configuration settings.


LAN Configurations
Status:
Step 3: Files backed up
Step 4: Replacing existing config files
Step 4: Existing config files have been replaced
SUCCESS: Receiver workflow successfully completed.
Broadcast Server
Receiver
Running the Receiver allows this PC to receiver configuration files from the Broadcast Server
Start
Click the Start button to receive configuration
Step 1: Discover config server
Step 2: Request remote configuration files
Step 3: Back up existing configuration files
Step 4: Replacing existing configuration files
Step 5: Launching application
Exit

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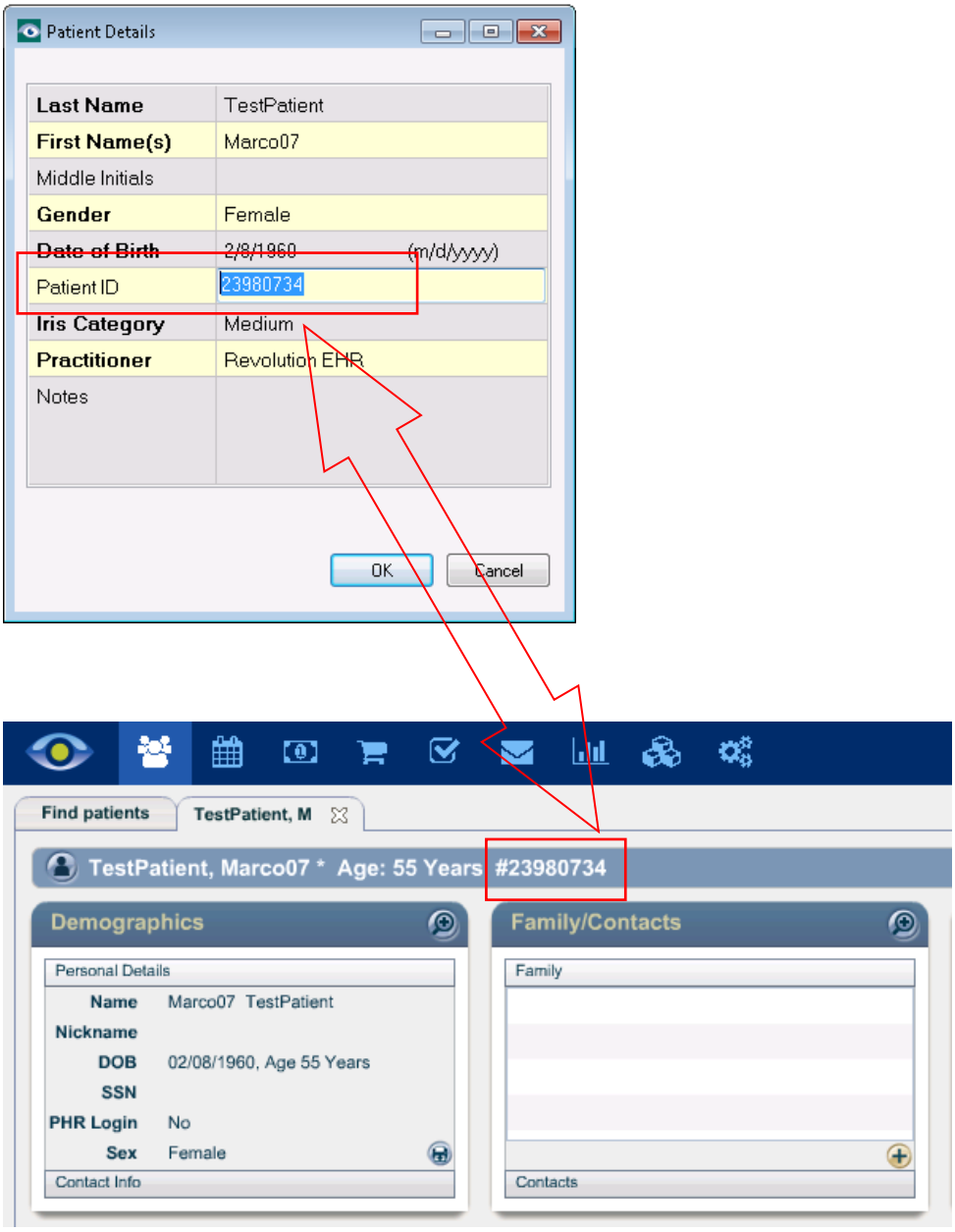
Appendix C: Updating existing patient records

The integration between RevolutionEHR and Optos is based on the Patient Id field. If the two systems have the same patient Id number, they can "talk" to each other. Practices that have years of patient records stored in Optos should consider manually updating the Patient ID to match the patient id in RevolutionEHR. The Optos Patient ID field should be updated prior to clicking "Export to Optos" in RevolutionEHR (otherwise two patient records will exist in Optos).



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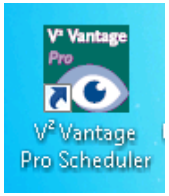
Appendix D: Software installation overview

Front Desk PC

Export patient demographics to create a matching patient in the optomap software. Installed software:

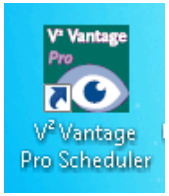
- Web browser for RevolutionEHR
- RevIntegrator for Imaging
- V² Vantage Pro Scheduler.exe or Capture.exe



Technicians' PC

Export patient demographics to create a matching patient in the optomap software. Installed software:

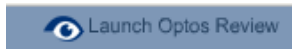
- Web browser for RevolutionEHR
- RevIntegrator for Imaging
- V² Vantage Pro Scheduler.exe or Capture.exe

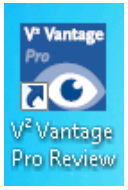


Final Exam Room PC

Inside the patient's encounter, click the Launch Optos Review button to view this patient's optomap images. Installed software:

- Web browser for RevolutionEHR
- RevIntegrator for Imaging
- V² Vantage Pro Review





If patient demographics aren't exported, use the tethered tablet to manually update the patient id in optos to match the RevolutionEHR patient id.

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For practices using the Daytona system, along with its tethered tablet, you'll need to install Scheduler.exe on at least one PC somewhere in the practice. Typically this PC might be at the front desk, or it might be a technician's PC. This PC would be responsible for exporting patient demographics from RevolutionEHR into the Optos system.

In order to install Scheduler.exe, locate the Vantage software for Image server (the PC that is used for saving images from an Optos camera where it is not directly connected). On that server, browse to the location "**C:\Program Files\Optos\Optomap Applications"**, then locate scheduler.exe. This software application can be copied to the front desk or technician's PC, into a similar folder structure: "**C:\Program Files\Optos\Optomap Applications\scheduler.exe"**.

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